# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| L2 and (stop same (transmit$4 or send$3)) | 33 |

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**Search:**

```
l2 same (stop same (transmit$4 or
send$3))
```

[Refine Search]

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## Search History

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| Set Name Query | Hit Count | Set Name |
|---|---|---|
| side by side | | result set |
| *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L4    l2 and (stop same (transmit$4 or send$3)) | 33 | L4 |
| *DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR* | | |
| L3    "collision detection mechanism" same bus same transmi$5 | 0 | L3 |
| *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L2    "collision detection mechanism" same bus same transmi$5 | 43 | L2 |
| L1    "collision detection mechanism" same "data bus" same transmi$5 | 0 | L1 |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| "collision detection mechanism" same bus same transmi$5 | 0 |

**Database:**
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**Search:**
L3

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| Set Name Query | Hit Count | Set Name |
|---|---|---|
| side by side | | result set |
| *DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR* | | |
| L3     "collision detection mechanism" same bus same transmi$5 | 0 | L3 |
| *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L2     "collision detection mechanism" same bus same transmi$5 | 43 | L2 |
| L1     "collision detection mechanism" same "data bus" same transmi$5 | 0 | L1 |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| "collision detection mechanism" same bus same transmi$5 | 43 |

**Database:**

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**Search:**

L2

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## Search History

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| Set Name | Query | Hit Count | Set Name |
|---|---|---|---|
| side by side | | | result set |
| | *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L2 | "collision detection mechanism" same bus same transmi$5 | 43 | L2 |
| L1 | "collision detection mechanism" same "data bus" same transmi$5 | 0 | L1 |

END OF SEARCH HISTORY

# Refine Search

### Search Results -

| Terms | Documents |
|---|---|
| (370/912 \|370/423 \|370/252 \|370/229 \|370/230 \|370/230.1 \|370/231 \|370/232 \|370/233 \|370/234 \|370/235 \|709/249 \|709/233 \|709/231 \|709/250 \|709/201 \|709/238 \|710/18 \|710/29 \|710/30 \|710/31 \|710/32 \|710/38 \|710/100 \|710/106 \|710/305 \|712/28 \|712/29 \|712/30).ccls. | 20590 |

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**Search:**

L1

Refine Search

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### Search History

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| Set Name side by side | Query | Hit Count | Set Name result set |
|---|---|---|---|
| | *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L1 | 710/18,29-32,38,100,106,305;709/249,233,231,250,201,238;370/912,423,252,229-235;712/28-30.ccls. | 20590 | L1 |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms | Documents |
|-------|-----------|
| L1 and L2 | 41 |

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**Search:**
L4

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## Search History

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| Set Name side by side | Query | Hit Count | Set Name result set |
|------|-------|-----------|----------|
| | DB=PGPB,USPT,USOC; PLUR=YES; OP=OR | | |
| L4 | l1 and l2 | 41 | L4 |
| | DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR | | |
| L3 | (bus near5 control$4 near5 (data near3 flow$3)) same (transmit$4 or send$3) same receiv$3 | 14 | L3 |
| | DB=PGPB,USPT,USOC; PLUR=YES; OP=OR | | |
| L2 | (bus near5 control$4 near5 (data near3 flow$3)) same (transmit$4 or send$3) same receiv$3 | 175 | L2 |
| L1 | 710/18,29-32,38,100,106,305;709/249,233,231,250,201,238;370/912,423,252,229-235;712/28-30.ccls. | 20590 | L1 |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| L6 and (overflow$3 same mode) | 17 |

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**Search:** L7

Refine Search

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## Search History

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| Set Name Query | Hit Count | Set Name |
|---|---|---|
| side by side | | result set |
| *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L7    l6 and (overflow$3 same mode) | 17 | L7 |
| L6    (bus near5 control$4 near5 (data near3 flow)) same transmit$4 same receiv$3 | 149 | L6 |
| L5    l1 and (overflow$3 same mode) | 2 | L5 |
| L4    L1 and HDLC | 0 | L4 |
| L3    L1 or HDLC | 4002 | L3 |
| L2    L1 and ("high-level data link control" or HDLC) | 0 | L2 |
| L1    ("data bus" near5 control$4 near5 (data near3 flow)) same transmit$4 same receiv$3 | 41 | L1 |

END OF SEARCH HISTORY

# Refine Search

## Search Results -

| Terms | Documents |
|---|---|
| L6 and (overflow$3 same mode) | 0 |

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**Search:**
L8

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| Set Name | Query | Hit Count | Set Name |
|---|---|---|---|
| side by side | | | result set |
| | *DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR* | | |
| L8 | l6 and (overflow$3 same mode) | 0 | L8 |
| | *DB=PGPB,USPT,USOC; PLUR=YES; OP=OR* | | |
| L7 | l6 and (overflow$3 same mode) | 17 | L7 |
| L6 | (bus near5 control$4 near5 (data near3 flow)) same transmit$4 same receiv$3 | 149 | L6 |
| L5 | l1 and (overflow$3 same mode) | 2 | L5 |
| L4 | L1 and HDLC | 0 | L4 |
| L3 | L1 or HDLC | 4002 | L3 |
| L2 | L1 and ("high-level data link control" or HDLC) | 0 | L2 |
| L1 | ("data bus" near5 control$4 near5 (data near3 flow)) same transmit$4 same receiv$3 | 41 | L1 |

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**Term:**

> uplink same bus same data same stop$3

**Display:** `10` Documents in **Display Format:** `-` Starting with Number `1`

**Generate:** ○ Hit List ◉ Hit Count ○ Side by Side ○ Image

[ Search ]   [ Clear ]   [ Interrupt ]

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| Set Name | Query | Hit Count | Set Name |
|---|---|---|---|
| side by side | | | result set |
| | DB=PGPB,USPT; PLUR=YES; OP=OR | | |
| L3 | uplink same bus same data same stop$3 | 9 | L3 |
| L2 | uplink same "data bus" same stop$3 | 4 | L2 |
| | DB=USPT; PLUR=YES; OP=OR | | |
| L1 | 6625163.pn. and stop$3 | 1 | L1 |

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| IEEE JNL | IEEE Journal or Magazine |
| IEE JNL | IEE Journal or Magazine |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF | IEE Conference Proceeding |
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Duarte, O.C.M.B.; de Lima, H.M.;
Global Telecommunications Conference, 1989, and Exhibition. 'Communications Technology for the 1990s and Beyond'.
GLOBECOM '89. IEEE
27-30 Nov. 1989 Page(s):1744 - 1748 vol.3
Digital Object Identifier 10.1109/GLOCOM.1989.64242

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# EAST - [Untitled1:1]

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  - L2: (17) l1 and (overfl
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- UDC
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DBs   USPAT

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| 2 | BRS | L2 | 17 | l1 and (overflow$3 same mode) | USPA T | 2006/06/0 2 09:52 | | | |

Start | EAST - [...

# EAST - [Untitled1:1]

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Active
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    L2: (17) l1 and (overfl
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| | U | I | Document ID | Issue Dat | Pages | Title | Current OR | Current X |
|---|---|---|---|---|---|---|---|---|
| 1 | □ | □ | US 6466997 B1 | 20021015 | 121 | Method and apparatus for performing TX raw c | 710/48 | 714/34 |
| 2 | □ | □ | US 6430626 B1 | 20020806 | 79 | Network switch with a multiple bus structure | 709/249 | 370/412; 370/911; |
| 3 | □ | □ | US 6260073 B1 | 20010710 | 77 | Network switch including a switch mana | 709/249 | 370/412; 370/911; |
| 4 | □ | □ | US 6212567 B1 | 20010403 | 112 | Method and apparatus for performing raw cell | 709/231 | |
| 5 | □ | □ | US 6115775 A | 20000905 | 111 | Method and apparatus for performing interrup | 710/260 | 710/48 |
| 6 | □ | □ | US 6094434 A | 20000725 | 96 | Network switch with separate cut-through bu | 370/401 | 370/423; 370/429 |
| 7 | □ | □ | US 6067563 A | 20000523 | 118 | Method and apparatus for avoiding control re | 709/212 | |
| 8 | □ | □ | US 5999980 A | 19991207 | 118 | Apparatus and method for setting a congestio | 709/235 | 370/229; 370/232; |
| 9 | □ | □ | US 5995995 A | 19991130 | 117 | Apparatus and method for scheduling virtual | 718/100 | 718/101; 718/104; |
| 10 | □ | □ | US 5970229 A | 19991019 | 121 | Apparatus and method for performing look-ahe | 709/212 | 709/204; 710/22; |
| 11 | □ | □ | US 5966546 | 19991012 | 117 | Method and apparatus | 710/48 | 709/250; |

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| IEE JNL | IEE Journal or Magazine |
| IEEE CNF | IEEE Conference Proceeding |
| IEE CNF | IEE Conference Proceeding |
| IEEE STD | IEEE Standard |

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## Improving the satellite communication efficiency of the accumulative acknowledgement strategies

Duarte, O.C.M.B.; de Lima, H.M.
COPPE/EE, Univ. Federal do Rio de Janeiro, Brazil;

### Abstract

The performances of two finite buffer error recovery strategies--HDLC-Ms,SREJ+REJ and the q,SREJ modified protocols--are analyzed. In both strategies the retransmission request decision between selective repeat and continuous retransmission is based on an imminent buffer **overflow** condition. These are accumulative acknowledgement schemes, but in the second strategy the selective-repeat control frame is uniquely an individual negative acknowledgement. The two strategies take advantage of the availability of a greater buffer capacity, making the most of the selective repeat, postponing the sending of a continuous retransmission request. Numerical results show a better performance very close to the ideal, but it does not integrally conform to the high-level data link control (HDLC) procedures. It is shown that these strategies are well suited for high-speed data transfer in the high-error-rate satellite environment

### Index Terms

**Inspec**

**Controlled Indexing**
protocols    satellite relay systems    telecommunication traffic

**Non-controlled Indexing**
HDLC    accumulative acknowledgement strategies    continuous retransmission request    finite buffer error recovery
strategies    high-error-rate satellite environment    high-level data link control    high-speed data transfer    q,SREJ modified
protocols    satellite communication efficiency    selective-repeat control frame

**Author Keywords**
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